PowCon® Arc Stud™ 625

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DC Inverter/ Stud Welder

Quick Specs

Industrial Applications
Fabrication
Structural Steel Work
Shipyard Applications
Bridge Construction
Maintenance

Processes (X-Ray Quality)
Stud Weld (SW)

Weld Outputs Rated at 104° F (40° C)
DC Stud 50 – 1000 A

Weight 75 lb (34 kg)

The Power of Blue®

The Professional Welder's Choice — designed with the professional in mind, the Arc Stud series has the best welding arc in their class!

Wind Tunnel Technology™ protects electrical components and PC boards from contamination.

Fan-On-Demand™ cooling system operates only when needed, reducing noise, energy use and the amount of contaminants pulled through machine.

Ultra-tough, polycarbonate-blended cover for control panel protects front controls from damage.

Inverter arc control technology provides greater current control for superior Arc Stud performance.

Auto-Link® circuit automatically links the power source to primary voltage being applied (460/575 VAC, three-phase).

International-style weld disconnects provide high-quality weld cable connections.

***NEW!* Brushed aluminum case** is the professional's choice. Lightweight, aerospace-grade aluminum offers protection with the benefit of reduced weight.

Line voltage compensation keeps power constant even if power input varies by ±10%.

Large, dual digital meters are easy to view and are presettable to ease setting weld output.

Process select button reduces the number of control setup combinations without reducing any features.

Standard 4-pin receptacle allows for simple connection of Arc Stud application gun.

TRUE BLUE® 1 YR. WARRANTY

Power source and stud application gun are warranted for 1 year, parts and labor.

Miller®

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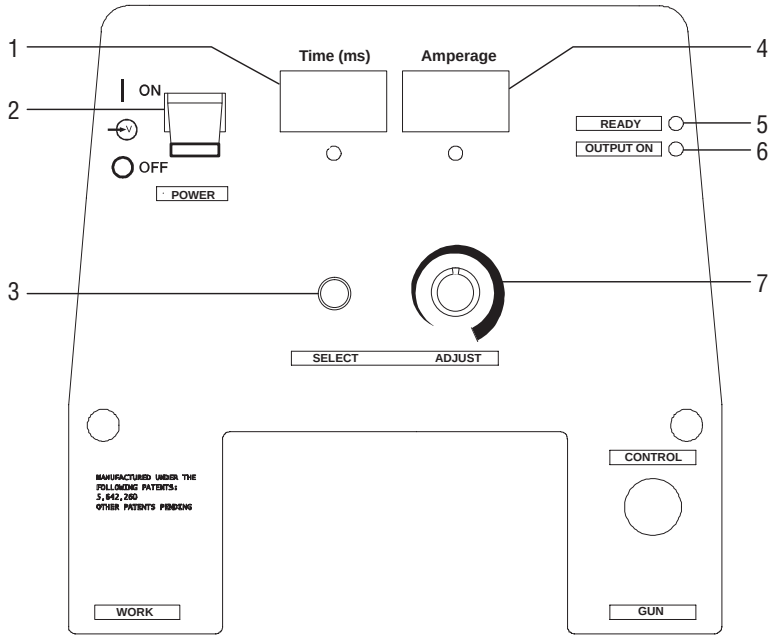
Web Site
www.MillerWelds.com

Specifications (Subject to change without notice.)

Input Power	Max Open-Circuit Voltage	Amperage Output Range	Rated Output at 7% Duty Cycle*	Amps Input at Rated Load Output, 60 Hz 460 V	575 V	KVA	KW	Dimensions	Weight
Three-Phase	80	50 – 1000 A	1000 A @ 32 V	55 A	45 A	26.4 A	4 A	H: 33 in (838 mm) W: 18-3/4 in (476 mm) D: 45-1/2 in (1156 mm)	75 lbs (34 kg)

**Rated duty cycle = 1.7 times the maximum one-second outputs per minute.*

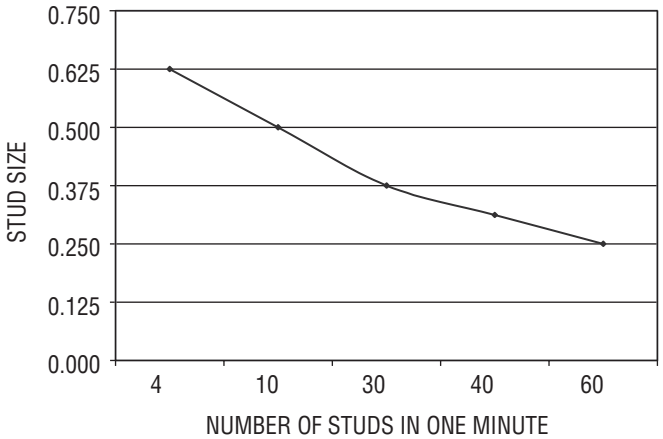
Control Panel



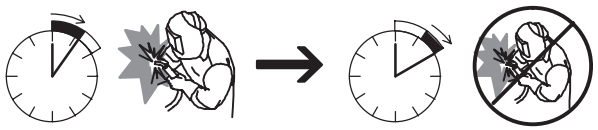
1. Weld Time Indicator and Meter
2. Power Switch
3. Process Select Button
4. Amperage Indicator and Meter
5. Weld Ready Indicator
6. Output On Indicator
7. Amperage/Voltage Control

Performance Data

DUTY CYCLE CHART



7% Duty Cycle

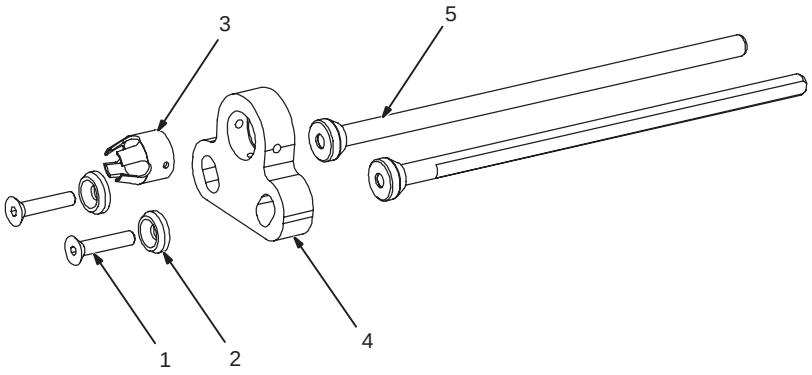


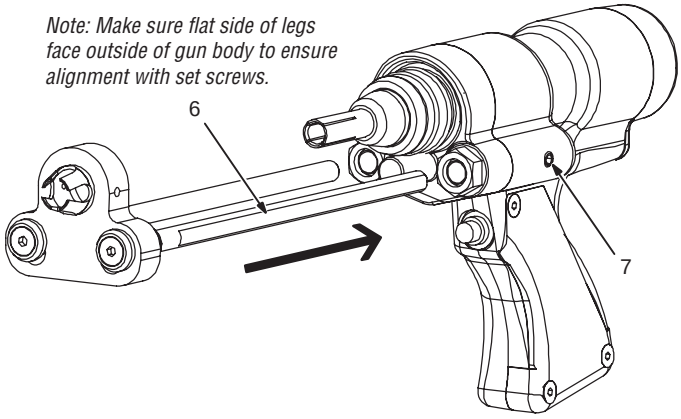
1 second welding

14 seconds resting

Percent duty cycle = 1.7 times the number of one-second (1000ms) loads/outputs per minute, without overheating. The one-second load is the rated output.

Arc Stud™ 625 Stud Application Gun (Subject to change without notice.)





Foot Installation

1. Leg Screw
2. Leg Washer
3. Ferrule Grip
4. Foot
5. Leg

The foot is available in 3 different sizes (small, medium, and large) and 2 different configurations (closed and split). Typically, a split foot is only used when welding headed anchors and sheer connectors.

Foot Size	Stud Range	Part Number
Small	Up to 1/2 in	#219 670
Medium	5/8 to 3/4 in	#219 671

The foot is installed on the ends of the legs. Unscrew the flat head screws from the ends of the legs. Place the trim washers on the flat head screws and place the screws through the adjustment slots in the foot. Reattach the screws to the legs.

Leg Installation

6. Flat Side of Leg
7. Leg Set Screw

Insert legs into leg retainers. Line up the flat side of the legs with set screws. Tighten set screws securely.

Accessories

Arc Stud Application Gun Accessories

Item	Size	Part Number
Gun Legs	(2) 9 in (2) 14 in	**#219 655** **#219 656**
Stud Chucks	#10 1/4 in 3/8 in 5/16 in 7/16 in 1/2 in 5/8 in	**#219 657** **#219 658** **#219 659** **#219 660** **#219 661** **#219 662** **#219 663**
Chuck Key	—	**#219 672**

Item	Size	Part Number
Ferrule Grips	3/16 in 1/4 in 5/16 in 3/8 in 7/16 in 1/2 in 5/8 in	**#220 077** **#219 664** **#219 665** **#219 666** **#219 667** **#219 668** **#219 669**
Gun Foot	Small Foot Medium Foot	**#219 670** **#219 671**

Arc Stud Application Gun Accessory Kits

Kit	Part Number	Diameter	Length	Gun Legs	Stud Chucks	Ferrule Grips	Gun Foot
SG-1	**#195 359**	#10 (.190 in) – 5/16 in	1 in – 3 in	(2) 9 in	#10, 1/4 in, 5/16 in	3/16 in, 1/4 in, 5/16 in	Small
SG-2	**#195 360**	5/16 in – 7/16 in	1 in – 3 in	(2) 9 in	5/16 in, 3/8 in, 7/16 in	5/16 in, 3/8 in, 7/16 in	Small
SG-3	**#195 361**	7/16 in – 5/8 in	1 in – 3 in	(2) 9 in	7/16 in, 1/2 in, 5/8 in	7/16 in, 1/2 in, 5/8 in	Small, Medium
SG-4	**#195 362**	3/8 in, 1/2 in, 5/8 in	1 in – 3 in	(2) 9 in	3/8 in, 1/2 in, 5/8 in	3/8 in, 1/2 in, 5/8 in	Small, Medium
SG-5	**#195 363**	#10, 3/8 in, 1/2 in	1 in – 3 in	(2) 9 in	#10, 3/8 in, 1/2 in	3/8 in, 1/2 in	Small
SG-6	**#195 364**	1/2 in – 5/8 in	1 in – 3 in	(2) 9 in	1/2 in, 5/8 in	1/2 in, 5/8 in	Small, Medium

Ordering Information

Equipment and Options	Stock No.	Description	Qty.	Price
Arc Stud™ 625 D Package System	**#XXX XXX**	480/575 VAC with Auto-Link®, stud gun with dampener		
Arc Stud™ 625 ND Package System	**#XXX XXX**	480/575 VAC with Auto-Link®, stud gun without dampener (includes cable leads #217 222 and #217 172)		
Arc Stud™ 625 Power Source	**#907 222**	480/575 VAC with Auto-Link®		
Arc Stud™ Standard Duty Application Gun	**#195 467** **#195 510**	Without dampener With dampener		
System Cable Leads				
Work Lead	**#217 277**	26 ft (8 m) 2/0 work lead with HD screw-type clamp		
Weld Lead	**#217 214** **#217 172**	52 ft (16 m) 2/0 weld/control lead 26 ft (8 m) 2/0 weld/control lead		
Accessories				
Arc Stud Application Gun Accessories		See chart on page 3 for ordering information		
Arc Stud Application Gun Accessory Kits		See chart on page 3 for ordering information		

Date: **Total Quoted Price:**

Note: Accessories are ordered individually or in kits per application. Application guns are supplied only with accessories ordered.

Distributed by:

Litho in USA